

MAGNETIC RESONANCE IMAGING

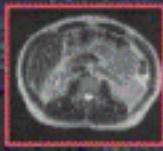
RENAL TRANSPLANT DONOR PROGRAM

OUR ROLE

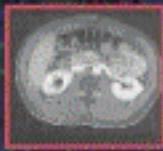
- To determine if the donor kidney is free of pathologic conditions and structural abnormalities
- To determine number and location of renal vessels for surgical planning
- To ensure donors quality of life is not compromised



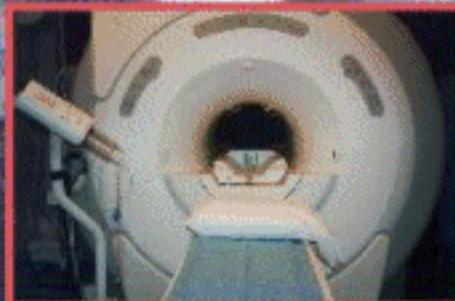
Axial T1 weighted shows basic anatomy.



Axial T2 weighted shows pathology (lesions and cysts)



Post Gadolinium injection shows function and visualizes enhancing lesions



A coronal 3D volume is acquired during a controlled Gadolinium injection to visualize renal vascularity.

ADVANTAGES of MRI over CONVENTIONAL ANGIOGRAPHY

- Decreased toxicity with Gadolinium contrast agent
- Less invasive
- No radiation exposure
- Demonstrates function as well as structure



A double renal artery is not an acceptable transplant. It is difficult for surgeons to anastomose.

